

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/577,688  
Source: IFUP  
Date Processed by STIC: 05/11/2006

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IFWP

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/577,688

DATE: 05/11/2006  
TIME: 11:20:00

Input Set : A:\TESHP103US.txt  
Output Set: N:\CRF4\05112006\J577688.raw

3 <110> APPLICANT: TOAGOSEI CO., LTD  
5 <120> TITLE OF INVENTION: ANTIMICROBIAL PEPTIDE AND USE THEREOF  
7 <130> FILE REFERENCE: TESHP103US  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/577,688  
C--> 9 <141> CURRENT FILING DATE: 2006-04-28  
9 <150> PRIOR APPLICATION NUMBER: JP 2003-369595  
10 <151> PRIOR FILING DATE: 2003-10-29  
12 <160> NUMBER OF SEQ ID NOS: 38  
14 <170> SOFTWARE: PatentIn version 3.1  
16 <210> SEQ ID NO: 1  
17 <211> LENGTH: 6  
18 <212> TYPE: PRT  
19 <213> ORGANISM: Homo sapiens  
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23 Leu Met Trp Trp Met Leu  
24 1 5  
27 <210> SEQ ID NO: 2  
28 <211> LENGTH: 6  
29 <212> TYPE: PRT  
30 <213> ORGANISM: Drosophila melanogaster  
32 <400> SEQUENCE: 2  
34 Leu Met Trp Trp Leu Leu  
35 1 5  
38 <210> SEQ ID NO: 3  
39 <211> LENGTH: 6  
40 <212> TYPE: PRT  
41 <213> ORGANISM: Arabidopsis thaliana  
43 <400> SEQUENCE: 3  
45 Cys Leu Phe Trp Leu Leu  
46 1 5  
49 <210> SEQ ID NO: 4  
50 <211> LENGTH: 6  
51 <212> TYPE: PRT  
52 <213> ORGANISM: Saccharomyces cerevisiae  
54 <400> SEQUENCE: 4  
56 Leu Ile Trp Tyr Leu Leu  
57 1 5  
60 <210> SEQ ID NO: 5  
61 <211> LENGTH: 6  
62 <212> TYPE: PRT  
63 <213> ORGANISM: Haloarcula marismortui  
65 <400> SEQUENCE: 5  
67 Val Val Tyr Trp Leu Leu

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68 1 5  
71 <210> SEQ ID NO: 6  
72 <211> LENGTH: 6  
73 <212> TYPE: PRT  
74 <213> ORGANISM: Escherichia coli  
76 <400> SEQUENCE: 6  
78 Leu Tyr Leu Gly Ala Val  
79 1 5  
82 <210> SEQ ID NO: 7  
83 <211> LENGTH: 6  
84 <212> TYPE: PRT  
85 <213> ORGANISM: Pediococcus acidilactici  
87 <400> SEQUENCE: 7  
89 Leu Ile Thr Ser Lys Met  
90 1 5  
93 <210> SEQ ID NO: 8  
94 <211> LENGTH: 6  
95 <212> TYPE: PRT  
96 <213> ORGANISM: Acanthamoeba castellanii  
98 <400> SEQUENCE: 8  
100 Phe Phe Tyr Met Val Ile  
101 1 5  
104 <210> SEQ ID NO: 9  
105 <211> LENGTH: 6  
106 <212> TYPE: PRT  
107 <213> ORGANISM: Staphylococcus aureus  
109 <400> SEQUENCE: 9  
111 Leu Leu Thr Ala Lys Met  
112 1 5  
115 <210> SEQ ID NO: 10  
116 <211> LENGTH: 14  
117 <212> TYPE: PRT  
118 <213> ORGANISM: Artificial Sequence  
120 <220> FEATURE:  
121 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide group  
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125 Arg Lys Lys Lys Arg Lys Val Leu Met Trp Trp Met Leu Arg  
126 1 5 10  
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130 <211> LENGTH: 13  
131 <212> TYPE: PRT  
132 <213> ORGANISM: Artificial Sequence  
134 <220> FEATURE:  
135 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide group  
137 <400> SEQUENCE: 11  
139 Arg Lys Lys Lys Arg Lys Val Leu Met Trp Trp Met Leu  
140 1 5 10  
143 <210> SEQ ID NO: 12  
144 <211> LENGTH: 13

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145 <212> TYPE: PRT  
146 <213> ORGANISM: Artificial Sequence  
148 <220> FEATURE:  
149 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide  
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151 <400> SEQUENCE: 12  
153 Arg Ile Arg Lys Lys Leu Arg Leu Met Trp Trp Met Leu  
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157 <210> SEQ ID NO: 13  
158 <211> LENGTH: 13  
159 <212> TYPE: PRT  
160 <213> ORGANISM: Artificial Sequence  
162 <220> FEATURE:  
163 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide  
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165 <400> SEQUENCE: 13  
167 Leu Met Trp Trp Met Leu Arg Ile Arg Lys Lys Leu Arg  
168 1 5 10  
171 <210> SEQ ID NO: 14  
172 <211> LENGTH: 13  
173 <212> TYPE: PRT  
174 <213> ORGANISM: Artificial Sequence  
176 <220> FEATURE:  
177 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide  
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179 <400> SEQUENCE: 14  
181 Leu Met Trp Trp Met Leu Arg Lys Lys Lys Arg Lys Val  
182 1 5 10  
185 <210> SEQ ID NO: 15  
186 <211> LENGTH: 15  
187 <212> TYPE: PRT  
188 <213> ORGANISM: Artificial Sequence  
190 <220> FEATURE:  
191 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide  
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193 <400> SEQUENCE: 15  
195 Arg Lys Lys Lys Arg Lys Val Leu Met Trp Trp Met Leu Ala Arg  
196 1 5 10 15  
199 <210> SEQ ID NO: 16  
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201 <212> TYPE: PRT  
202 <213> ORGANISM: Artificial Sequence  
204 <220> FEATURE:  
205 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide  
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207 <400> SEQUENCE: 16  
209 Arg Ile Arg Lys Lys Leu Arg Leu Met Trp Trp Met Leu Ala Arg  
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213 <210> SEQ ID NO: 17  
214 <211> LENGTH: 14  
215 <212> TYPE: PRT  
216 <213> ORGANISM: Artificial Sequence  
218 <220> FEATURE:

219 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide group

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221 <400> SEQUENCE: 17  
223 Arg Lys Lys Lys Arg Lys Val Leu Met Trp Trp Met Leu Arg  
224 1 5 10  
227 <210> SEQ ID NO: 18  
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229 <212> TYPE: PRT  
230 <213> ORGANISM: Artificial Sequence  
232 <220> FEATURE:  
233 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide group  
235 <400> SEQUENCE: 18  
237 Arg Lys Lys Lys Arg Lys Val Val Val Tyr Trp Leu Leu Arg  
238 1 5 10  
241 <210> SEQ ID NO: 19  
242 <211> LENGTH: 14  
243 <212> TYPE: PRT  
244 <213> ORGANISM: Artificial Sequence  
246 <220> FEATURE:  
247 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide group  
249 <400> SEQUENCE: 19  
251 Arg Lys Lys Lys Arg Lys Val Leu Leu Thr Ala Lys Met Arg  
252 1 5 10  
255 <210> SEQ ID NO: 20  
256 <211> LENGTH: 14  
257 <212> TYPE: PRT  
258 <213> ORGANISM: Artificial Sequence  
260 <220> FEATURE:  
261 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide group  
263 <400> SEQUENCE: 20  
265 Arg Lys Lys Lys Arg Lys Val Phe Phe Tyr Met Val Ile Arg  
266 1 5 10  
269 <210> SEQ ID NO: 21  
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271 <212> TYPE: PRT  
272 <213> ORGANISM: Artificial Sequence  
274 <220> FEATURE:  
275 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide group  
277 <400> SEQUENCE: 21  
279 Arg Lys Lys Lys Arg Lys Val Leu Tyr Leu Gly Ala Val Arg  
280 1 5 10  
283 <210> SEQ ID NO: 22  
284 <211> LENGTH: 13  
285 <212> TYPE: PRT  
286 <213> ORGANISM: Artificial Sequence  
288 <220> FEATURE:  
289 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide group  
291 <400> SEQUENCE: 22  
293 Arg Lys Arg Lys Arg Lys Arg Leu Met Trp Trp Met Leu  
294 1 5 10

297 <210> SEQ ID NO: 23

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298 <211> LENGTH: 14  
299 <212> TYPE: PRT  
300 <213> ORGANISM: Artificial Sequence  
302 <220> FEATURE:  
303 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide group  
305 <400> SEQUENCE: 23  
307 Arg Ile Arg Lys Lys Leu Arg Leu Met Trp Trp Met Leu Arg  
308 1 5 10  
311 <210> SEQ ID NO: 24  
312 <211> LENGTH: 13  
313 <212> TYPE: PRT  
314 <213> ORGANISM: Artificial Sequence  
316 <220> FEATURE:  
317 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide group  
319 <400> SEQUENCE: 24  
321 Leu Lys Arg Lys Leu Gln Arg Leu Met Trp Trp Met Leu  
322 1 5 10  
325 <210> SEQ ID NO: 25  
326 <211> LENGTH: 14  
327 <212> TYPE: PRT  
328 <213> ORGANISM: Artificial Sequence  
330 <220> FEATURE:  
331 <223> OTHER INFORMATION: Designed antimicrobial peptide  
333 <400> SEQUENCE: 25  
335 Arg Lys Lys Lys Arg Lys Val Leu Met Trp Trp Met Leu Arg  
336 1 5 10  
339 <210> SEQ ID NO: 26  
340 <211> LENGTH: 14  
341 <212> TYPE: PRT  
342 <213> ORGANISM: Artificial Sequence  
344 <220> FEATURE:  
345 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide group  
347 <400> SEQUENCE: 26  
349 Arg Lys Arg Arg Leu Met Trp Trp Met Leu Lys Lys Leu Arg  
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353 <210> SEQ ID NO: 27  
354 <211> LENGTH: 14  
355 <212> TYPE: PRT  
356 <213> ORGANISM: Artificial Sequence  
358 <220> FEATURE:  
359 <223> OTHER INFORMATION: Designed antimicrobial peptide containing a terminal amide group  
361 <400> SEQUENCE: 27  
363 Leu Lys Arg Lys Leu Gln Arg Leu Met Trp Trp Met Leu Arg  
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367 <210> SEQ ID NO: 28  
368 <211> LENGTH: 15  
369 <212> TYPE: PRT  
370 <213> ORGANISM: Artificial Sequence  
372 <220> FEATURE:

**VERIFICATION SUMMARY**

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date